

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/050198

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/46 H01L23/467 H01L23/473 F04B43/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 483 469 A (HEWLETT-PACKARD COMPANY) 6 May 1992 (1992-05-06) column 3, line 53 - column 4, line 7; claims 1,9 abstract	1,3-18, 21-33
X	US 5 288 214 A (FUKUDA ET AL) 22 February 1994 (1994-02-22) column 1, line 24 - column 2, line 5 abstract	1,3-18, 21-33
A	US 2002/050148 A1 (SHYY WEI ET AL) 2 May 2002 (2002-05-02) the whole document	1,12
A	US 6 272 866 B1 (TSAI MING-JYE ET AL) 14 August 2001 (2001-08-14) the whole document	1,12
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

26 April 2005

Date of mailing of the international search report

10/05/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 02/50902 A (COOL STRUCTURES PRODUCTION AND SALES GMBH; MALY-SCHREIBER, MARTHA; HAG) 27 June 2002 (2002-06-27) the whole document</p> <p>-----</p>	1-33

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050198

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0483469	A	06-05-1992	DE 69104585 D1	17-11-1994
			DE 69104585 T2	18-05-1995
			EP 0483469 A1	06-05-1992
			JP 3144698 B2	12-03-2001
			JP 6341376 A	13-12-1994
			US 5129794 A	14-07-1992
US 5288214	A	22-02-1994	JP 3145745 B2	12-03-2001
			JP 5087042 A	06-04-1993
			JP 3071524 B2	31-07-2000
			JP 5099808 A	23-04-1993
			US 5336057 A	09-08-1994
US 2002050148	A1	02-05-2002	US 2004093887 A1	20-05-2004
US 6272866	B1	14-08-2001	NONE	
WO 0250902	A	27-06-2002	AT 410881 B	25-08-2003
			WO 0250902 A1	27-06-2002
			AT 2120200 A	15-12-2002
			AU 2325202 A	01-07-2002

PCT REQUEST

Print Out (Original in Electronic Form)

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, SOGHAL, Ramprasad
VIII-2-1(i)x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America